

wherein the first thin film transistor comprises an active layer in which two or more channel regions connected in series are formed.

2. (Amended) An electroluminescence display device comprising:

a substrate; and

a plurality of pixels over the substrate, each of the plurality of pixels comprising:

a first thin film transistor;

a second thin film transistor comprising a gate electrode electrically connected to the first thin film transistor; and

an electroluminescence element electrically connected to the second thin film transistor,

wherein the first thin film transistor comprises an active layer in which two or more channel regions connected in series are formed, and

wherein a channel width of the second thin film transistor is greater than a channel width of the first thin film transistor.

7 (Amended) An electroluminescence display device comprising:

a substrate; and

a plurality of pixels over the substrate, each of the plurality of pixels comprising:

a first thin film transistor;

a second thin film transistor comprising a gate electrode electrically connected to the first thin film transistor; and

an electroluminescence element electrically connected to the second thin film transistor,

wherein at least the first thin film transistor comprises an active layer in which two or more channel regions connected in series are formed, and

wherein an equation of $W2/L2 \geq 5 \times W1/L1$ establishes where a channel length of the second thin film transistor is L2, a channel width of the second thin film transistor is W2, a channel length of the first thin film transistor is L1 and a channel width of the first thin film transistor is W1.

~~8~~⁴ (Amended) An electroluminescence display device according to claim ~~3~~⁷ wherein the channel length of the second thin film transistor (L2) is 0.1 to 50 mm, the channel width of the second thin film transistor (W2) is 0.5 to 30 mm, the channel length of the first thin film transistor (L1) is 0.2 to 18 mm and the channel width of the first thin film transistor (W1) is 0.1 to 5 mm.

~~5~~² (Amended) An electroluminescence display device according to claim 1, wherein the first thin film transistor is a switching thin film transistor and the second thin film transistor is a current control thin film transistor.

9. ~~6~~⁵ (Amended) An electroluminescence display device according to claim ~~2~~⁴ wherein the first thin film transistor is a switching thin film transistor and the second thin film transistor is a current control thin film transistor.

~~7~~⁹ (Amended) An electroluminescence display device according to claim ~~3~~⁷ wherein the first thin film transistor is a switching thin film transistor and the second thin film transistor is a current control thin film transistor.

~~8~~³ (Amended) An electroluminescence display device according to claim 1, wherein each of the first and second thin film transistors has at least one lightly doped impurity region between a channel region and one of source or impurity regions where the lightly doped impurity region of the first thin film transistor does not overlap a gate electrode of the first thin film transistor and the lightly doped impurity region of the second thin film transistor overlaps a gate electrode of the second thin film transistor at least partly.

~~9~~⁶ (Amended) An electroluminescence display device according to claim ~~2~~⁴ wherein each of the switching element and current control element has at least one lightly doped impurity region between a channel region and one of source or impurity regions where the lightly doped impurity region of the switching element does not overlap a gate electrode of the switching element and the lightly doped impurity region of the current control element overlaps a gate electrode of the current control element at least partly.

A1
10. (Amended) An electroluminescence display device according to claim 1 wherein each of the switching element and the current control element has at least one lightly doped impurity region between a channel region and one of source or impurity regions where the lightly doped impurity region of the switching element does not overlap a gate electrode of the switching element and the lightly doped impurity region of the current control element overlaps a gate electrode of the current control element at least partly. ✓

Sub B1
14. (Amended) An electronic device comprising the electroluminescence display device according to claim 1, wherein the electronic device is at least one selected from the group consisting of a video camera, a digital camera, a goggle type display, a car navigation system, a personal computer, a mobile computer, a portable telephone, an electronic book, an image playback device using a recording medium.

A2
15. (Amended) An electronic device comprising the electroluminescence display device according to claim 2, wherein the electronic device is at least one selected from the group consisting of a video camera, a digital camera, a goggle type display, a car navigation system, a personal computer, a mobile computer, a portable telephone, an electronic book, an image playback device using a recording medium.

16. (Amended) An electronic device comprising the electroluminescence display device according to claim 3, wherein the electronic device is at least one selected from the group consisting of a video camera, a digital camera, a goggle type display, a car navigation system, a personal computer, a mobile computer, a portable telephone, an electronic book, an image playback device using a recording medium.

Sub C²

Please add new claims 17-54 as follows:

--17. An electroluminescence display device comprising:
a substrate; and
a plurality of pixels over the substrate, each of the plurality of pixels comprising:
a first thin film transistor;
a second thin film transistor comprising a gate electrode electrically connected to the first thin film transistor; and
an electroluminescence element electrically connected to the second thin film transistor,
wherein the first thin film transistor comprises an active layer in which at least two channel regions connected in series are formed with an impurity region interposed therebetween.

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~~18~~ An electroluminescence display device according to claim ~~17~~, a channel width of the second thin film transistor is greater than a channel width of the first thin film transistor.

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~~19~~ An electroluminescence display device according to claim ~~17~~, wherein each of the first and second thin film transistors has at least one lightly doped impurity region between a channel region and one of source or impurity regions where the lightly doped impurity region of the first thin film transistor does not overlap a gate electrode of the first thin film transistor and the lightly doped impurity region of the second thin film transistor overlaps a gate electrode of the second thin film transistor at least partly.

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~~20~~ An electroluminescence display device according to claim ~~17~~, wherein the first thin film transistor is a switching thin film transistor and the second thin film transistor is a current control thin film transistor.

15²¹ An electroluminescence display device according to claim ~~17~~¹¹, wherein an equation of $W2/L2 \geq 5 \times W1/L1$ establishes where a channel length of the second thin film transistor is L2, a channel width of the second thin film transistor is W2, a channel length of the first thin film transistor is L1 and a channel width of the first thin film transistor is W1.

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~~22~~¹⁵ An electroluminescence display device according to claim ~~21~~, wherein the channel length of the second thin film transistor (L2) is 0.1 to 50 mm, the channel width of the second thin film transistor (W2) is 0.5 to 30 mm, the channel length of the first thin film transistor (L1) is 0.2 to 18 mm and the channel width of the first thin film transistor (W1) is 0.1 to 5 mm.

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~~23~~⁰ An electroluminescence display device according to claim ~~17~~, wherein the substrate comprises a material selected from the group consisting of a glass, a glass ceramic, a quartz, a silicon, a ceramic, a metal, and a plastic.

Subt B²
24. An electronic device comprising the electroluminescence display device according to claim 17, wherein the electronic device is at least one selected from the group consisting of a video camera, a digital camera, a goggle type display, a car navigation system, a personal computer, a mobile computer, a portable telephone, an electronic book, an image playback device using a recording medium.

Subt C³
25. An electroluminescence display device comprising:
a substrate; and
a plurality of pixels over the substrate, each of the plurality of pixels comprising:
a first thin film transistor;
a second thin film transistor comprising a gate electrode electrically connected to the first thin film transistor; and
an electroluminescence element electrically connected to the second thin film transistor,
wherein the first thin film transistor comprises an active layer in which at least two channel regions connected in series are formed with an impurity region interposed therebetween, and

wherein a channel width of the second thin film transistor is greater than a channel width of the first thin film transistor.

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19 ~~26~~. An electroluminescence display device according to claim ~~25~~, wherein the first thin film transistor is a switching thin film transistor and the second thin film transistor is a current control thin film transistor.

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~~27~~. An electroluminescence display device according to claim ~~25~~, wherein the substrate comprises a material selected from the group consisting of a glass, a glass ceramic, a quartz, a silicon, a ceramic, a metal, and a plastic.

Sub B 3
28. An electronic device comprising the electroluminescence display device according to claim 25, wherein the electronic device is at least one selected from the group consisting of a video camera, a digital camera, a goggle type display, a car navigation system, a personal computer, a mobile computer, a portable telephone, an electronic book, an image playback device using a recording medium.

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~~29~~. An electroluminescence display device comprising:
a substrate; and
a plurality of pixels over the substrate, each of the plurality of pixels comprising:
a first thin film transistor;
a second thin film transistor comprising a gate electrode electrically connected to the first thin film transistor; and
an electroluminescence element electrically connected to the second thin film transistor,
wherein the first thin film transistor comprises an active layer in which at least two channel regions connected in series are formed with an impurity region interposed therebetween, and

wherein each of the first and second thin film transistors has at least one lightly doped impurity region between a channel region and one of source or impurity regions where the lightly doped impurity region of the first thin film transistor does not overlap a gate electrode of

the first thin film transistor and the lightly doped impurity region of the second thin film transistor overlaps a gate electrode of the second thin film transistor at least partly.

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~~30~~ An electroluminescence display device according to claim ~~29~~, wherein the first thin film transistor is a switching thin film transistor and the second thin film transistor is a current control thin film transistor.

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~~31~~ An electroluminescence display device according to claim ~~29~~, wherein the substrate comprises a material selected from the group consisting of a glass, a glass ceramic, a quartz, a silicon, a ceramic, a metal, and a plastic.

32. An electronic device comprising the electroluminescence display device according to claim 29, wherein the electronic device is at least one selected from the group consisting of a video camera, a digital camera, a goggle type display, a car navigation system, a personal computer, a mobile computer, a portable telephone, an electronic book, an image playback device using a recording medium.

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~~33~~ An electroluminescence display device comprising:
a substrate; and
a plurality of pixels over the substrate, each of the plurality of pixels comprising:
a switching element comprising an active layer and at least first and second gate electrodes adjacent to the active layer with a gate insulating film interposed therebetween;
a current control element comprising a gate electrode electrically connected to the switching element; and
an electroluminescence element electrically connected to the current control element.

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~~34~~ An electroluminescence display device according to claim ~~33~~, a channel width of the current control element is greater than a channel width of the switching element.

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26 An electroluminescence display device according to claim ~~33~~, wherein each of the switching element and current control element has at least one lightly doped impurity region between a channel region and one of source or impurity regions where the lightly doped impurity region of the switching element does not overlap a gate electrode of the switching element and the lightly doped impurity region of the current control element overlaps a gate electrode of the current control element at least partly.

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29 An electroluminescence display device according to claim ~~33~~, wherein the substrate comprises a material selected from the group consisting of a glass, a glass ceramic, a quartz, a silicon, a ceramic, a metal, and a plastic.

Sub B 5
37. An electronic device comprising the electroluminescence display device according to claim 33, wherein the electronic device is at least one selected from the group consisting of a video camera, a digital camera, a goggle type display, a car navigation system, a personal computer, a mobile computer, a portable telephone, an electronic book, an image playback device using a recording medium.

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29 An electroluminescence display device comprising:
a substrate; and
a plurality of pixels over the substrate, each of the plurality of pixels comprising:
a switching element comprising an active layer and at least first and second gate electrodes adjacent to the active layer with a gate insulating film interposed therebetween;
a current control element comprising a gate electrode electrically connected to the switching element; and
an electroluminescence element electrically connected to the current control element,
wherein a channel width of the current control element is greater than a channel width of the switching element.

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30 An electroluminescence display device according to claim ~~38~~, wherein the substrate comprises a material selected from the group consisting of a glass, a glass ceramic, a quartz, a silicon, a ceramic, a metal, and a plastic.

Sub B⁶

40. An electronic device comprising the electroluminescence display device according to claim 38, wherein the electronic device is at least one selected from the group consisting of a video camera, a digital camera, a goggle type display, a car navigation system, a personal computer, a mobile computer, a portable telephone, an electronic book, an image playback device using a recording medium.

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41 An electroluminescence display device comprising:

a substrate; and

a plurality of pixels over the substrate, each of the plurality of pixels comprising:

a switching element comprising an active layer and at least first and second gate electrodes adjacent to an active layer with a gate insulating film interposed therebetween;

a current control element comprising a gate electrode electrically connected to the switching element; and

an electroluminescence element electrically connected to the current control element,

wherein each of the switching element and the current control element has at least one lightly doped impurity region between a channel region and one of source or impurity regions where the lightly doped impurity region of the switching element does not overlap a gate electrode of the switching element and the lightly doped impurity region of the current control element overlaps a gate electrode of the current control element at least partly.

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42 An electroluminescence display device according to claim *41*, wherein the substrate comprises a material selected from the group consisting of a glass, a glass ceramic, a quartz, a silicon, a ceramic, a metal, and a plastic.

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Sub B⁷

43. An electronic device comprising the electroluminescence display device according to claim 41, wherein the electronic device is at least one selected from the group consisting of a video camera, a digital camera, a goggle type display, a car navigation system, a personal computer, a mobile computer, a portable telephone, an electronic book, an image playback device using a recording medium.

32 ~~44~~ An electroluminescence display device comprising:
a substrate; and
a plurality of pixels over the substrate, each of the plurality of pixels comprising:
a switching element comprising at least two thin film transistors;
a current control element comprising a gate electrode electrically connected to the
switching element; and
an electroluminescence element electrically connected to the current control element.

33 ~~45~~ An electroluminescence display device according to claim ~~44~~ 32, a channel width
of the current control element is greater than a channel width of the switching element.

34 ~~46~~ An electroluminescence display device according to claim ~~44~~ 32, wherein each of
the switching element and the current control element has at least one lightly doped impurity
region between a channel region and one of source or impurity regions where the lightly doped
impurity region of the switching element does not overlap a gate electrode of the switching
element and the lightly doped impurity region of the current control element overlaps a gate
electrode of the current control element at least partly.

35 ~~47~~ An electroluminescence display device according to claim ~~44~~ 32, wherein the
substrate comprises a material selected from the group consisting of a glass, a glass ceramic, a
quartz, a silicon, a ceramic, a metal, and a plastic.

Sub B⁸ 48. An electronic device comprising the electroluminescence display device
according to claim 44, wherein the electronic device is at least one selected from the group
consisting of a video camera, a digital camera, a goggle type display, a car navigation system, a
personal computer, a mobile computer, a portable telephone, an electronic book, an image
playback device using a recording medium.

~~49~~ An electroluminescence display device comprising:

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a substrate; and

a plurality of pixels over the substrate, each of the plurality of pixels comprising:

a switching element comprising at least two thin film transistors;

a current control element comprising a gate electrode electrically connected to the switching element; and

an electroluminescence element electrically connected to the current control element,

wherein a channel width of the current control element is greater than a channel width of the switching element.

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50. An electroluminescence display device according to claim ~~49~~ 36 wherein the substrate comprises a material selected from the group consisting of a glass, a glass ceramic, a quartz, a silicon, a ceramic, a metal, and a plastic.

Sub B 9
51. An electronic device comprising the electroluminescence display device according to claim 49, wherein the electronic device is at least one selected from the group consisting of a video camera, a digital camera, a goggle type display, a car navigation system, a personal computer, a mobile computer, a portable telephone, an electronic book, an image playback device using a recording medium